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APPLICATION NO	0.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/692,443		10/22/2003	Ashok N. Kabadi	42P15578	8005	
8791	7590	01/19/2006		EXAMINER		
		LOFF TAYLOR & OULEVARD	CHERVINSKY, BORIS LEO			
SEVENTI		OOLLVAICD		ART UNIT	PAPER NUMBER	
LOS ANO	GELES, CA	90025-1030		2835		
				DATE MAILED: 01/10/2000	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

		d	/
	Application No.	Applicant(s)	
	10/692,443	KABADI ET AL.	
Office Action Summary	Examiner	Art Unit	
	Boris L. Chervinsky	2835	
The MAILING DATE of this communication ap Period for Reply	opears on the cover sheet with	the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPI WHICHEVER IS LONGER, FROM THE MAILING [ - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the maili earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICAL.  136(a). In no event, however, may a report will apply and will expire SIX (6) MONTHE, cause the application to become ABAI	ATION.  By be timely filed  S from the mailing date of this communication.  NDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 09 i	December 2005.		
2a)⊠ This action is <b>FINAL</b> . 2b)☐ Th	is action is non-final.		
3) Since this application is in condition for allow	ance except for formal matter	s, prosecution as to the merits is	
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.	
Disposition of Claims			
4) Claim(s) <u>1-5,7,8,10,11,13 and 14</u> is/are pend	ing in the application.		
4a) Of the above claim(s) is/are withdra			
5) Claim(s) is/are allowed.			
6) Claim(s) <u>1-5,7,8,10,11,13 and 14</u> is/are rejec	ted.		
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/	or election requirement.		
Application Papers			
9) The specification is objected to by the Examir	ner.		
10)⊠ The drawing(s) filed on 09 December 2005 is	/are: a)⊠ accepted or b)□ o	objected to by the Examiner.	
Applicant may not request that any objection to the	e drawing(s) be held in abeyanc	e. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the corre			
11) The oath or declaration is objected to by the E	Examiner. Note the attached (	Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of:	n priority under 35 U.S.C. § 1	.19(a)-(d) or (f).	
1. Certified copies of the priority documer	nts have been received.		
2. Certified copies of the priority documer	nts have been received in App	olication No	
<ol><li>Copies of the certified copies of the pri</li></ol>	ority documents have been re	eceived in this National Stage	
application from the International Bure	au (PCT Rule 17.2(a)).		
* See the attached detailed Office action for a lis	st of the certified copies not re	ceived.	
Attachment(s)			
1) Notice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Sur Paper No(s)/	mmary (PTO-413) Mail Date	
<ul> <li>Notice of Draitsperson's Patent Drawing Review (F10-946)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date</li> </ul>	5. D N # 61.6	ormal Patent Application (PTO-152)	

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#### **DETAILED ACTION**

### Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1, 7, 11 are rejected under 35 U.S.C. 102(e) as being anticipated by Dessiatoun et al.

Dessiatoun disclose a heat sink comprising: a thermally conductive base comprised of a variable density graphite foam article 40-48 (see col. 7, line 42) having a first and second opposed surfaces; an electronic component 28 thermally coupled to the second surface of the thermally conductive base; a copper article 14 spread on the second surface of the thermally conductive base: and a copper sleeve 14 (vertical portion) spread between the first and second surfaces; the copper article 14 contacts the electronic component 28.

## Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 3, 8, 10, 13, 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dessiatoun et al.

Dessiatoun discloses the claimed invention except 90% and 25% density of the graphite foam. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have graphite foam density 90% or 25%, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. *In re Aller*, 105 USPQ 233.

Dessiatoun discloses the claimed invention except for the dimensions as claimed in claim 10. It would have been an obvious matter of design choice to size the heat sink as claimed, since such a modification would have involved a mere change in the size of a component. A change in size is generally recognized as being within the level of ordinary skill in the art. *In re Rose*, 105 USPQ 237 (CCPA 1955).

5. Claims 2, 4, 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dessiatoun et al. in view of Gallego et al.

Dessiatoun discloses the claimed invention except the fin structure and the fin structure comprised of 25% of graphite foam.

Gallego discloses the heat sink made of graphite foam and having the fin structure. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have fin structure as disclosed by Gallego in the structure disclosed by Dessiatoun providing minor modification for better heat dissipation. With

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respect to claim 4, Dessiatoun discloses the claimed invention except fins having 25% of the graphite foam. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have fins comprising 25% of graphite foam, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. *In re Aller*, 105 USPQ 233.

#### Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Boris L. Chervinsky whose telephone number is 571-272-2039. The examiner can normally be reached on 8-5.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynn D. Feild can be reached on 571-272-2800 ext. 35. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

BORIS CHÉRVINSKY PRIMARY EXAMINER

1/17/06 lun! ws